

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041322\
 Data File : VL038908.D
 Acq On : 13 Apr 2022 18:16
 Operator : SY/AP
 Sample : N2383-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

Quant Time: Apr 25 08:29:04 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	990780	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2292211	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2022807	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	1721451	11.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.20%

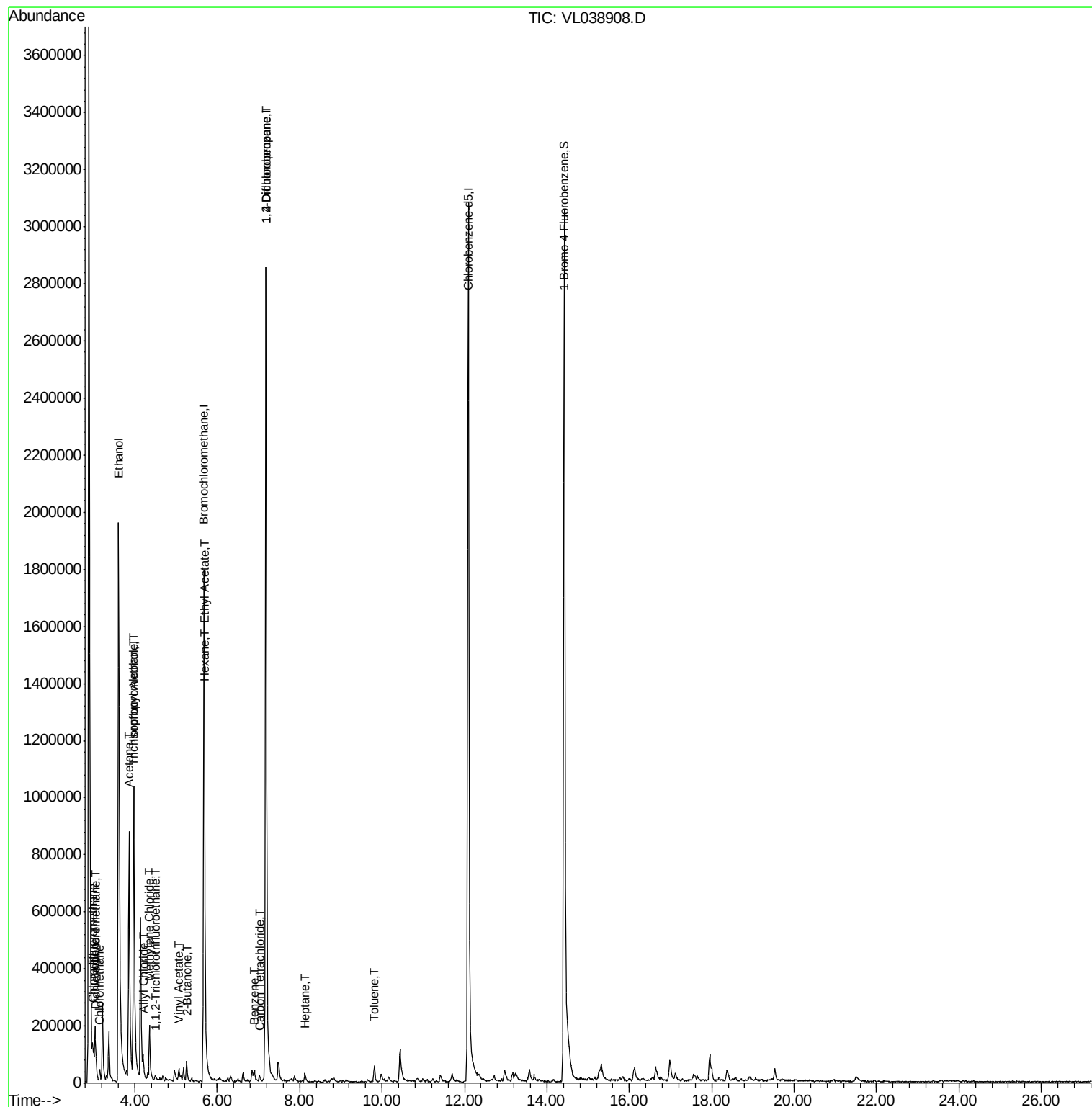
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	47062	0.335	ppbv 99
3) Chlorodifluoromethane	3.00	51	166501	1.377	ppbv # 88
4) Chloromethane	3.14	50	15588	0.249	ppbv 99
9) Propene	3.02	41	22873	0.358	ppbv # 82
10) Heptane	8.13	43	7603	0.047	ppbv # 36
11) Trichlorofluoromethane	3.95	101	54290	0.481	ppbv 89
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4344	0.050	ppbv # 73
13) Ethanol	3.60	45	2628154	675.998	ppbv # 100
15) Acetone	3.85	43	1081839	10.967	ppbv 100
19) Isopropyl Alcohol	3.97	45	1276798	25.326	ppbv # 100
20) Methylene Chloride	4.36	84	74202	2.074	ppbv 94
21) Allyl Chloride	4.21	41	3759	0.051	ppbv # 31
23) Vinyl Acetate	5.07	43	32690	0.340	ppbv # 73
25) Ethyl Acetate	5.69	43	80460	0.321	ppbv # 89
26) Hexane	5.70	57	61908	0.543	ppbv # 47
34) 2-Butanone	5.25	43	88156	0.973	ppbv # 89
35) Carbon Tetrachloride	7.02	117	4224	0.031	ppbv # 72
36) Benzene	6.89	78	15694	0.075	ppbv # 85
39) 1,2-Dichloropropane	7.18	63	639799	8.022	ppbv # 27
53) Toluene	9.82	91	21261	0.088	ppbv # 20

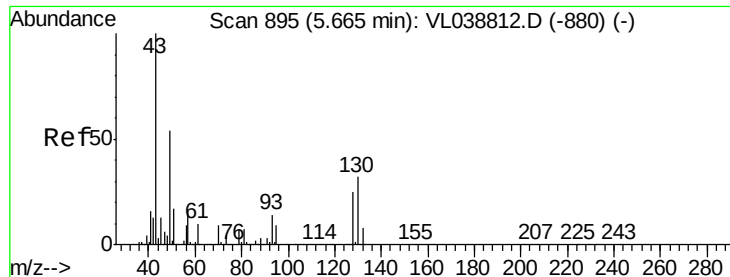
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
1DUP

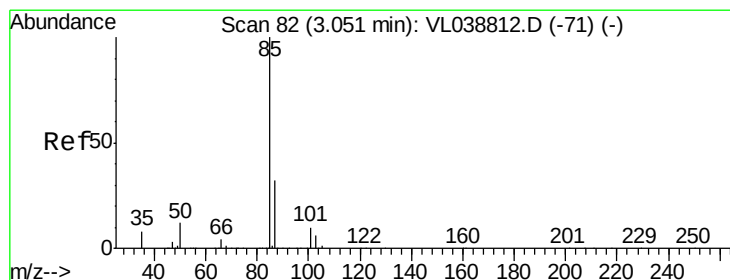
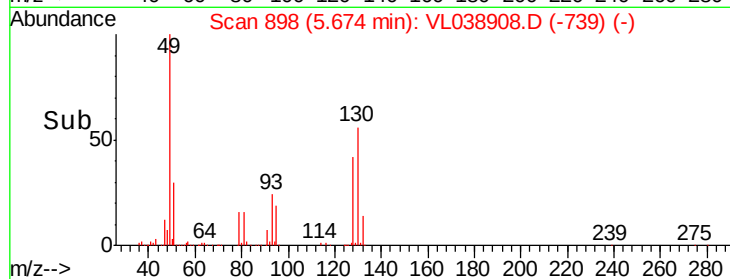
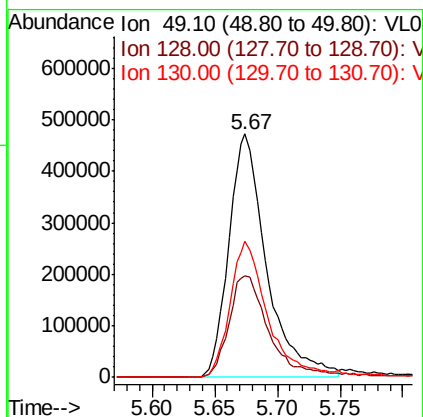
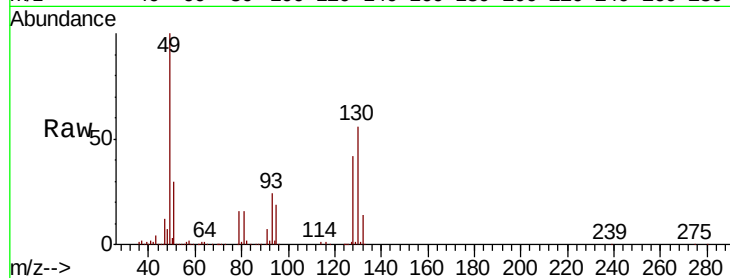
Quant Time: Apr 25 08:29:04 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 06 06:12:53 2022
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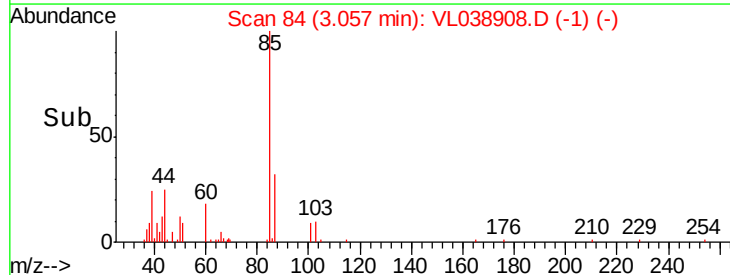
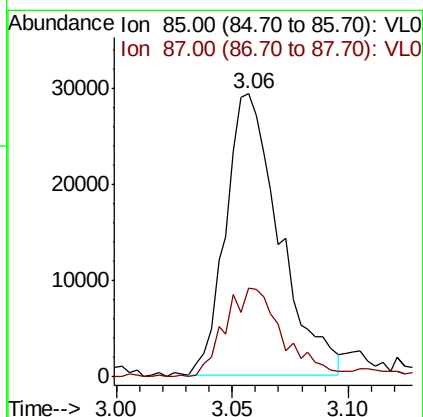
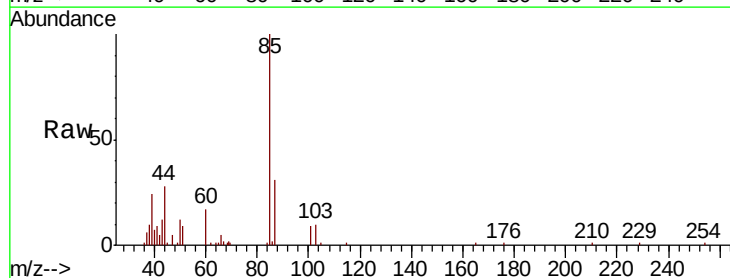
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 1DUP
 Acq: 13 Apr 2022 18:16

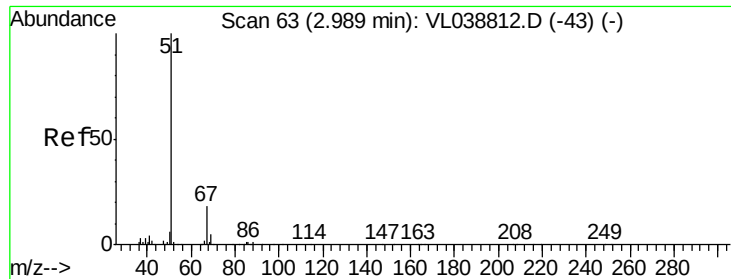
Tot Ion: 49 Resp: 990780
 Ion Ratio Lower Upper
 49 100
 128 46.3 24.1 72.3
 130 57.9 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.335 ppbv
 RT: 3.06 min Scan# 84
 Delta R.T. 0.01 min
 Lab File: VL038908.D
 Acq: 13 Apr 2022 18:16

Tgt Ion: 85 Resp: 47062
 Ion Ratio Lower Upper
 85 100
 87 31.7 25.9 38.9





#3

Chlorodifluoromethane

Concen: 1.377 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

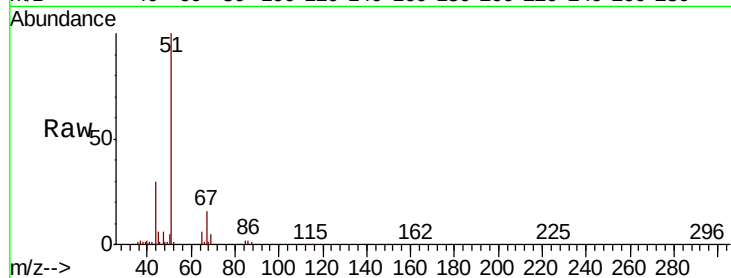
Acq: 13 Apr 2022 18:16

Tot Ion: 51 Resp: 166501

Ion Ratio Lower Upper

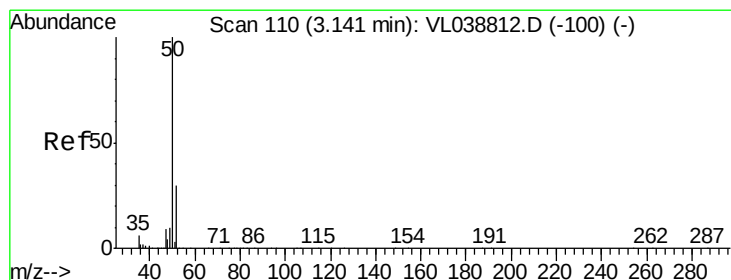
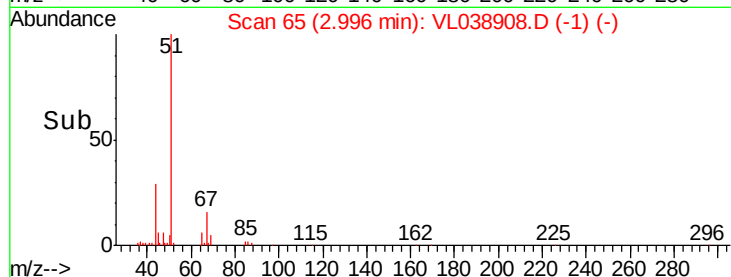
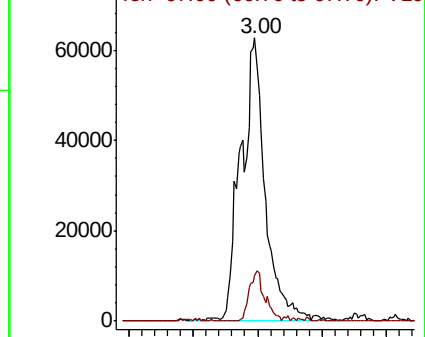
51 100

67 11.7 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.249 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038908.D

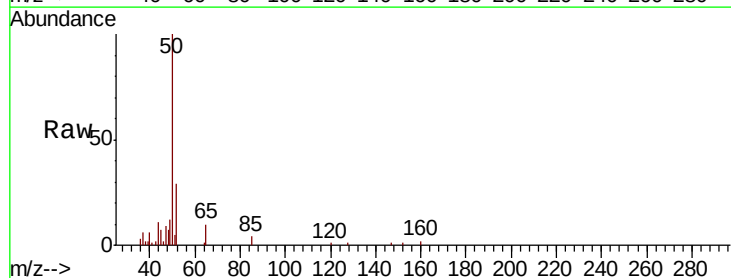
Acq: 13 Apr 2022 18:16

Tgt Ion: 50 Resp: 15588

Ion Ratio Lower Upper

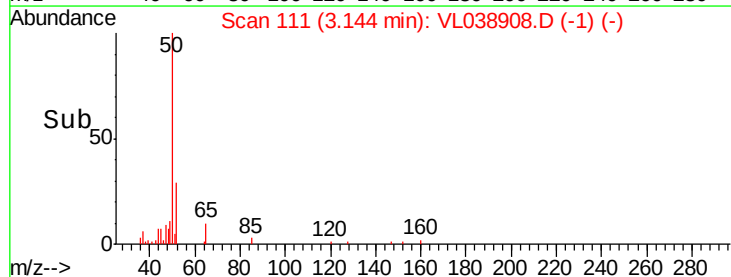
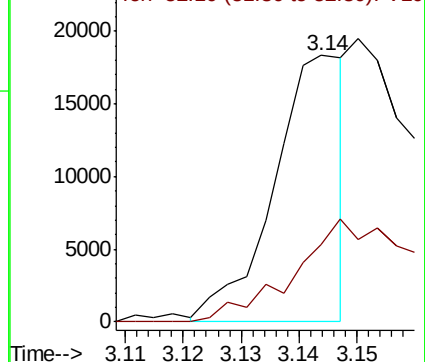
50 100

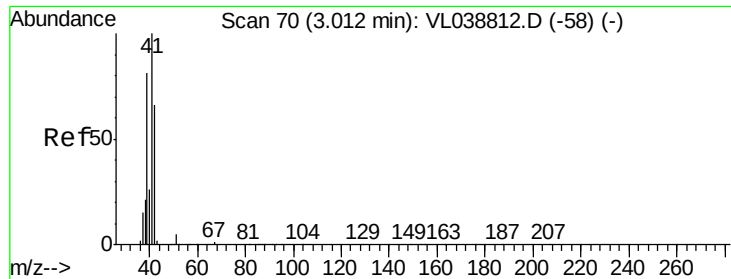
52 29.7 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.358 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

1DUP

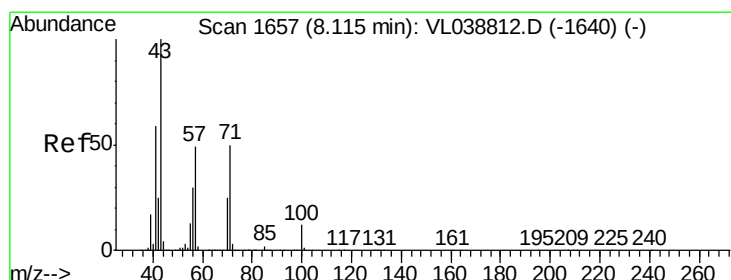
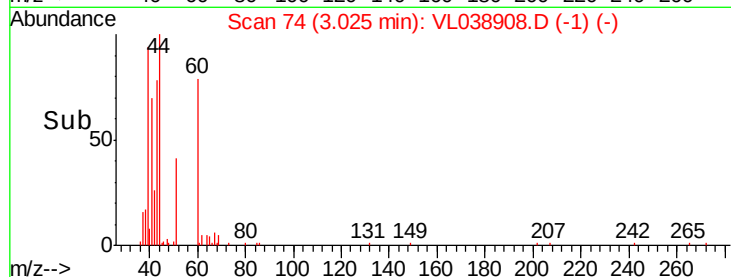
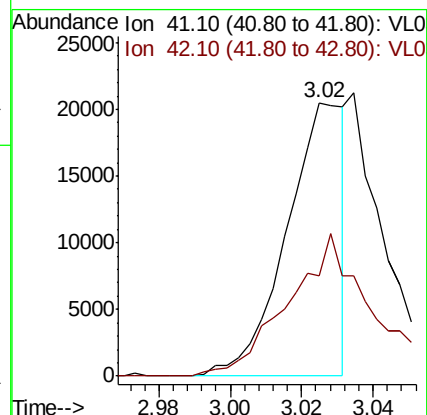
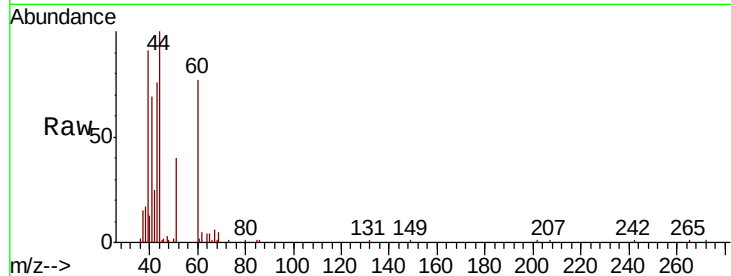
Acq: 13 Apr 2022 18:16

Tot Ion: 41 Resp: 22873

Ion Ratio Lower Upper

41 100

42 82.1 54.2 81.4#



#10

Heptane

Concen: 0.047 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL038908.D

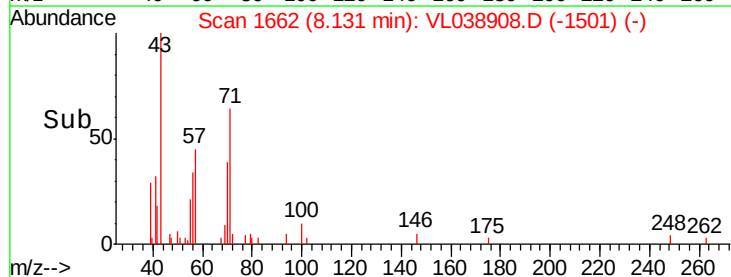
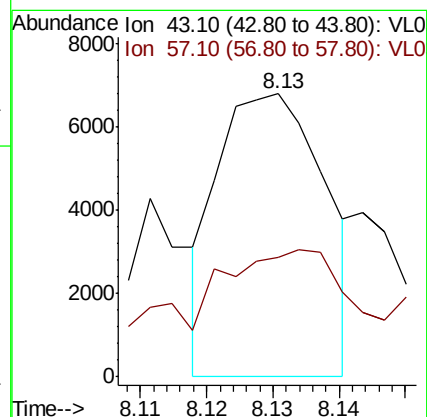
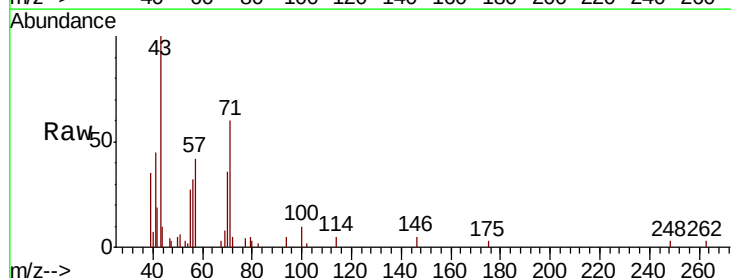
Acq: 13 Apr 2022 18:16

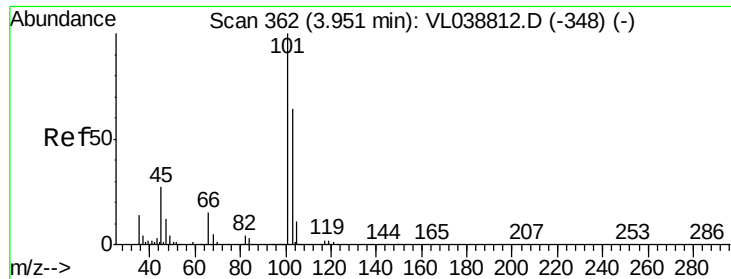
Tgt Ion: 43 Resp: 7603

Ion Ratio Lower Upper

43 100

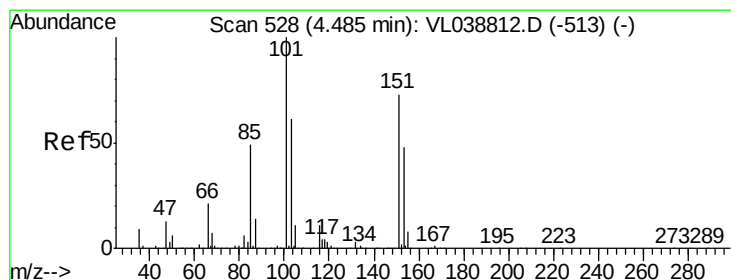
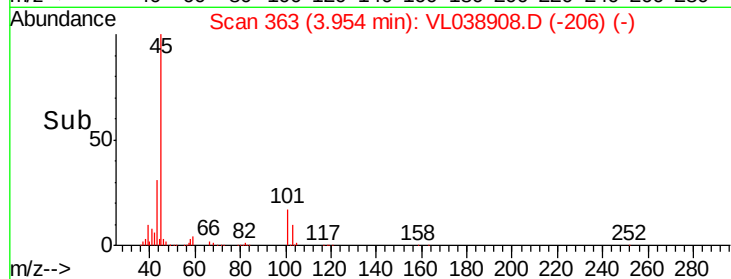
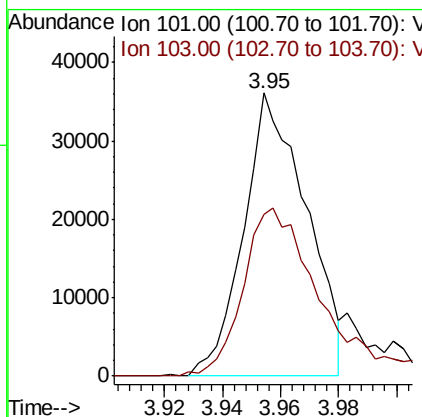
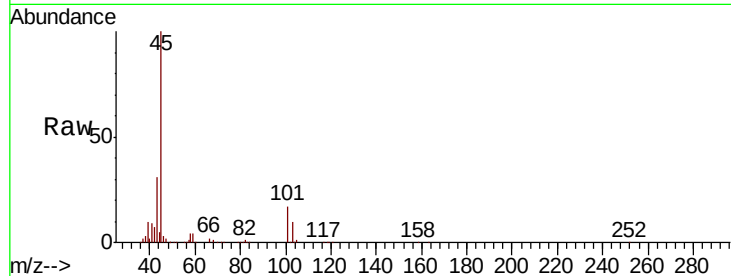
57 93.1 39.3 58.9#





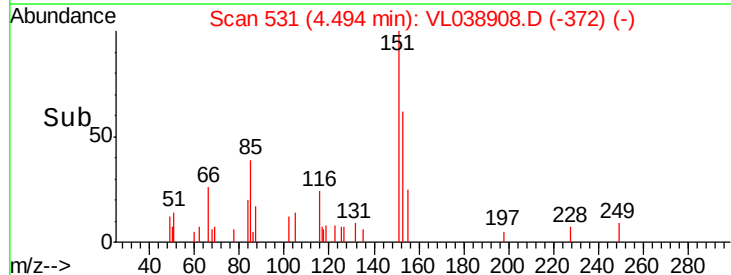
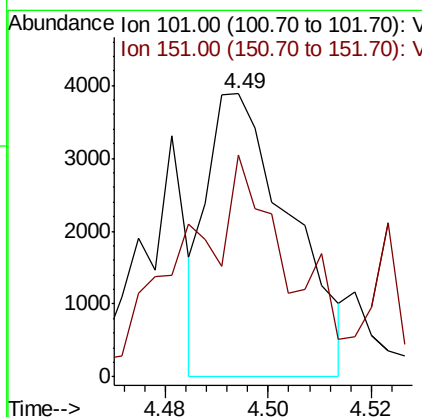
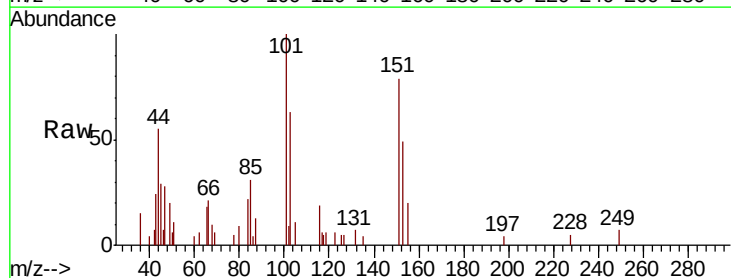
#11
 Trichlorofluoromethane
 Concen: 0.481 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1DUP
 Acq: 13 Apr 2022 18:16

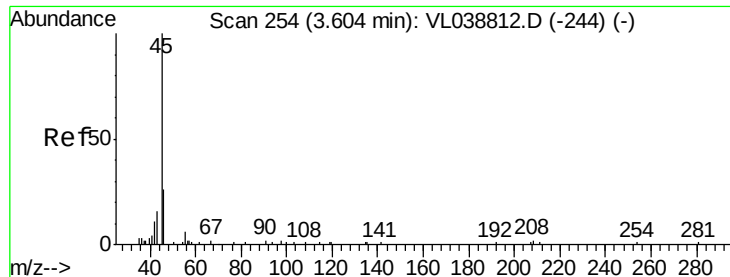
Tot Ion:101 Resp: 54290
 Ion Ratio Lower Upper
 101 100
 103 55.6 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.050 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VL038908.D
 Acq: 13 Apr 2022 18:16

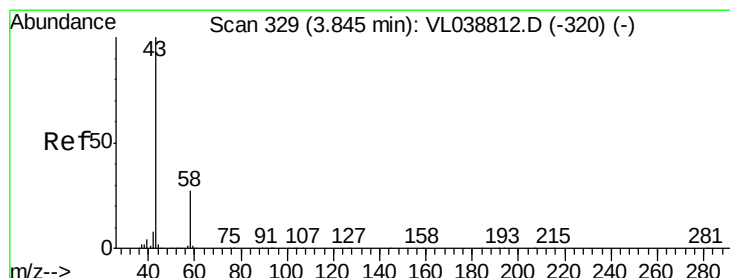
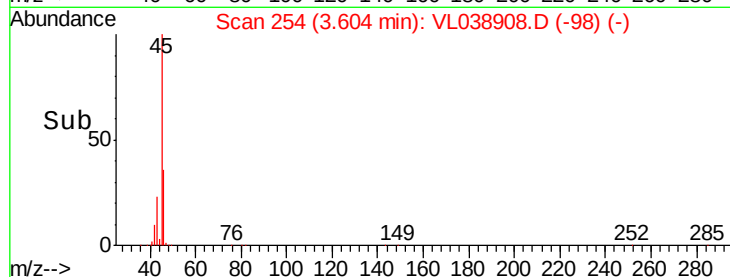
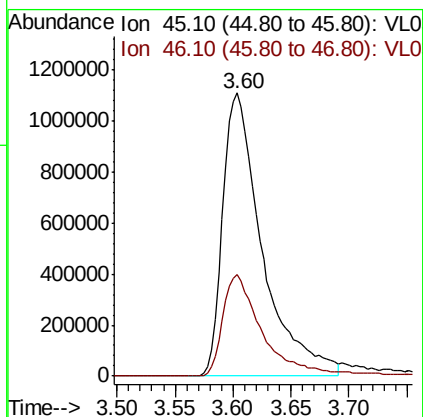
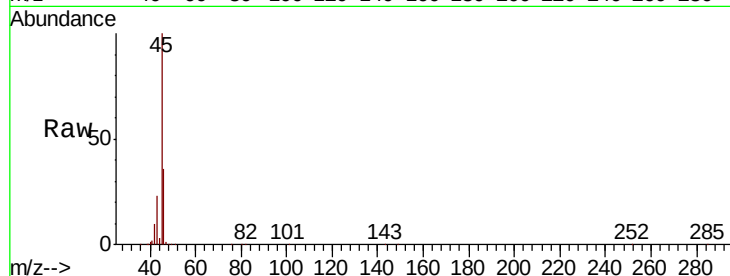
Tgt Ion:101 Resp: 4344
 Ion Ratio Lower Upper
 101 100
 151 98.3 59.9 89.9#





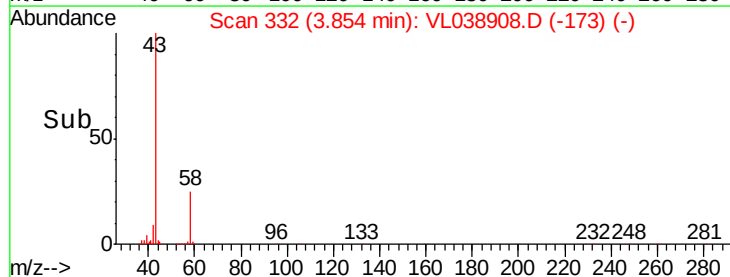
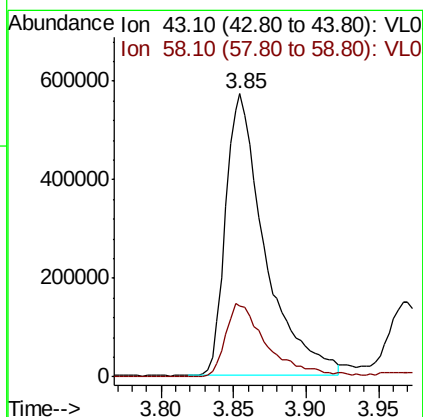
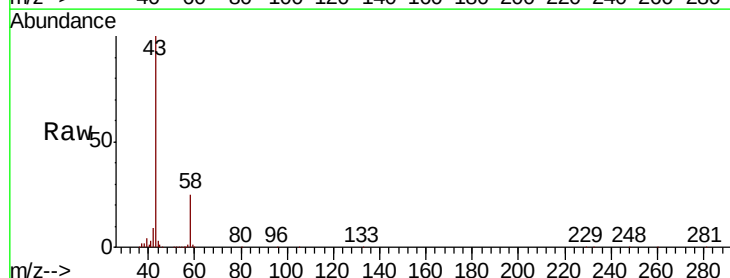
#13
 Ethanol
 Concen: 675.998 ppbv
 RT: 3.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1DUP
 Acq: 13 Apr 2022 18:16

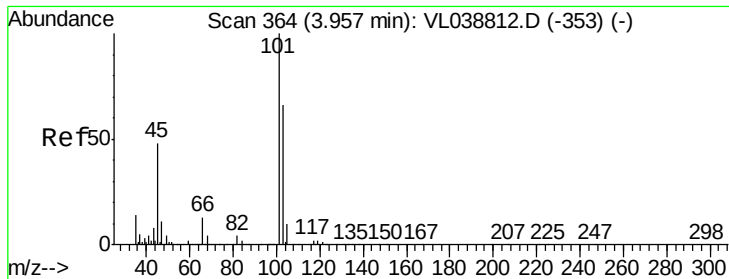
Tot Ion: 45 Resp: 2628154
 Ion Ratio Lower Upper
 45 100
 46 36.7 0.0 0.0#



#15
 Acetone
 Concen: 10.967 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL038908.D
 Acq: 13 Apr 2022 18:16

Tgt Ion: 43 Resp: 1081839
 Ion Ratio Lower Upper
 43 100
 58 28.0 22.5 33.7





#19

Isopropyl Alcohol

Concen: 25.326 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

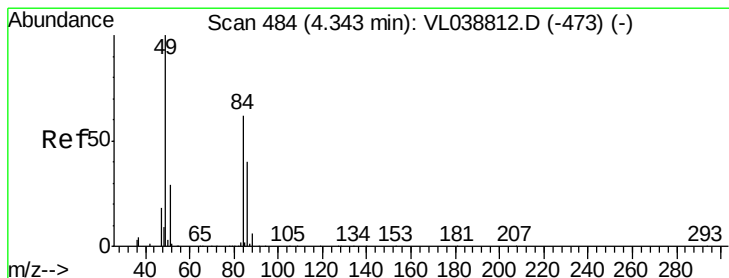
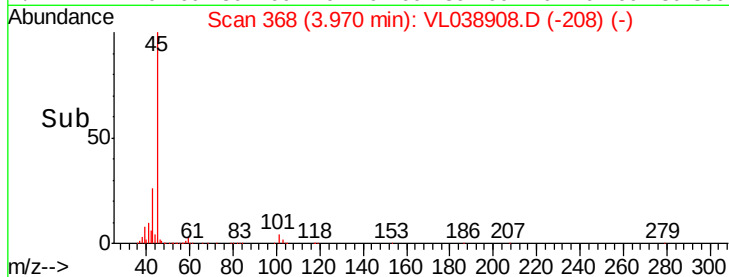
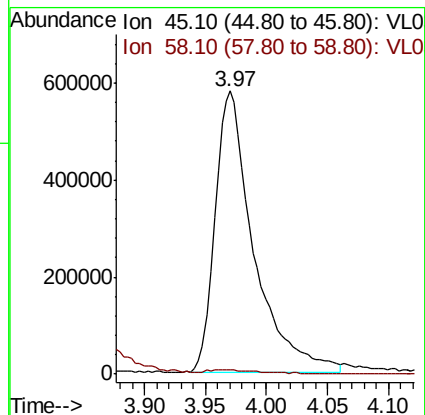
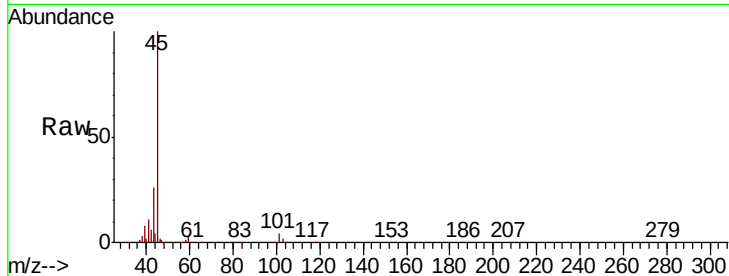
Acq: 13 Apr 2022 18:16

Tot Ion: 45 Resp: 1276798

Ion Ratio Lower Upper

45 100

58 2.4 0.0 0.0#



#20

Methylene Chloride

Concen: 2.074 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL038908.D

Acq: 13 Apr 2022 18:16

Tgt Ion: 84 Resp: 74202

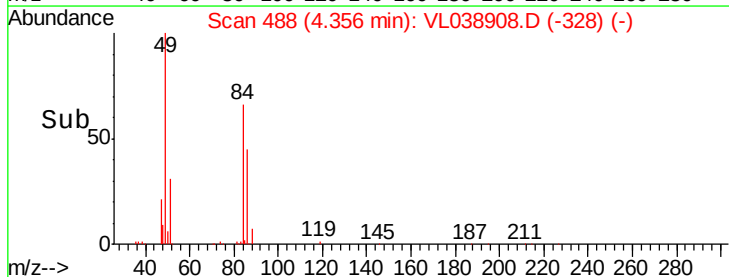
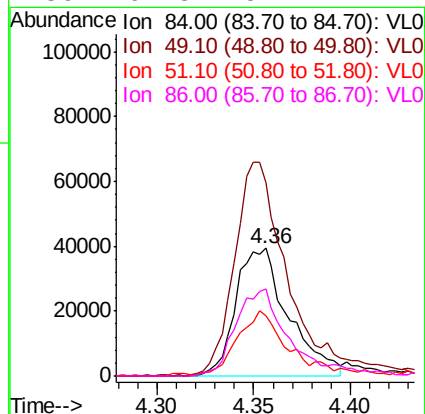
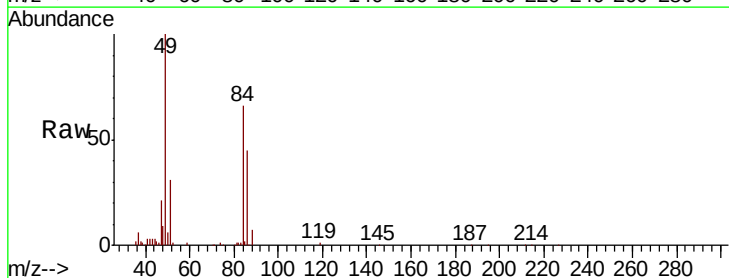
Ion Ratio Lower Upper

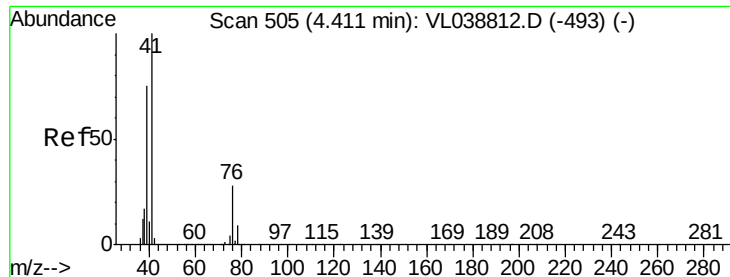
84 100

49 149.8 129.4 194.0

51 46.7 37.4 56.2

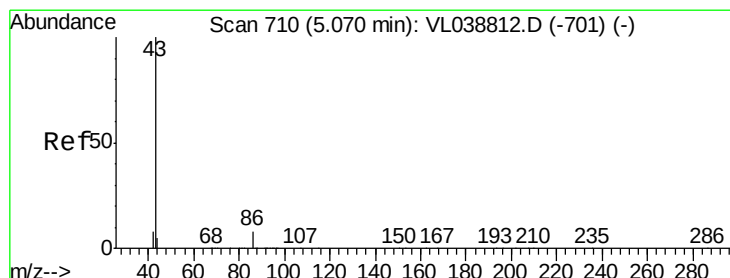
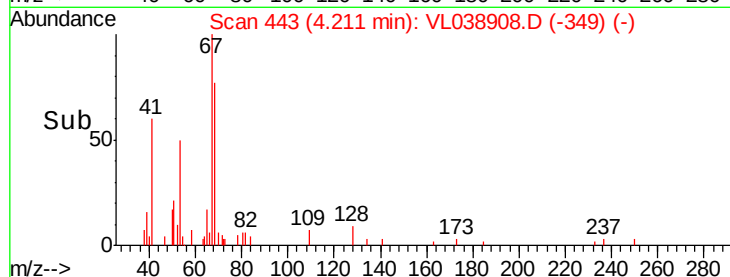
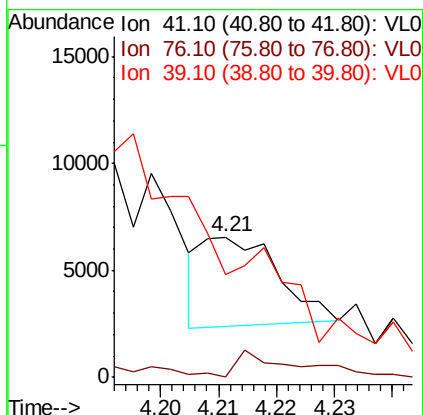
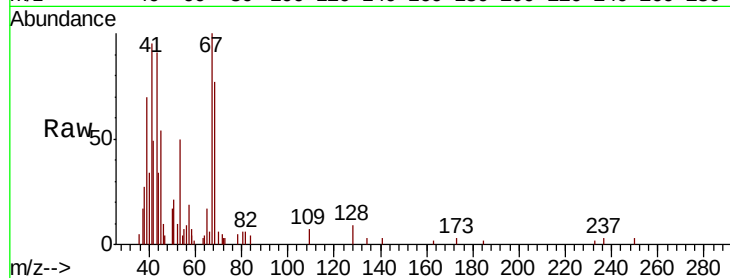
86 67.3 51.4 77.2





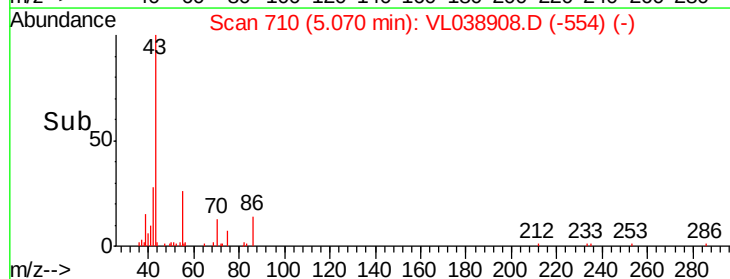
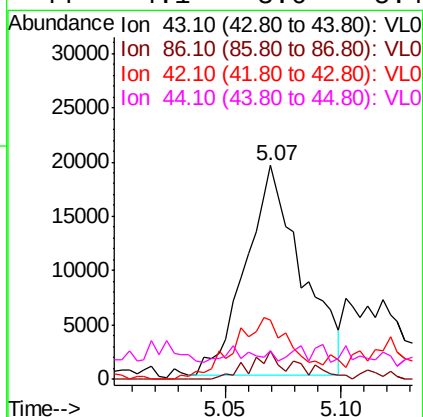
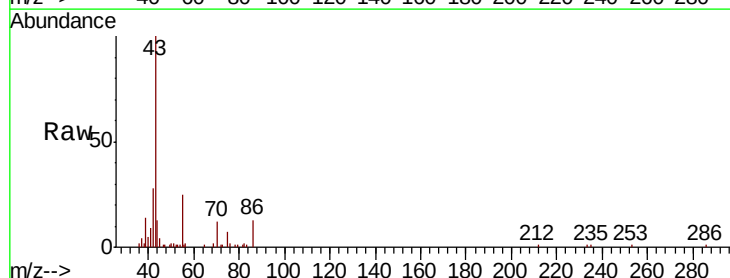
#21
Allvl Chloride
Concen: 0.051 ppbv
RT: 4.21
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2022 18:16

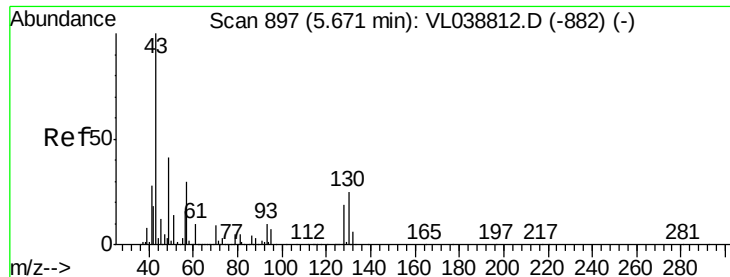
Tot Ion	Ratio	Lower	Upper
41	100		
76	38.5	23.7	35.5#
39	0.0	62.0	93.0#



#23
Vinyl Acetate
Concen: 0.340 ppbv
RT: 5.07 min Scan# 710
Delta R.T. 0.00 min
Lab File: VL038908.D
Acq: 13 Apr 2022 18:16

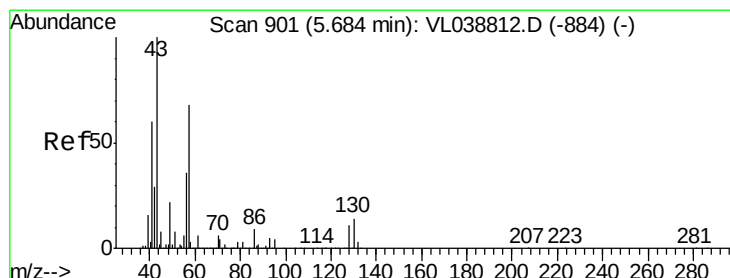
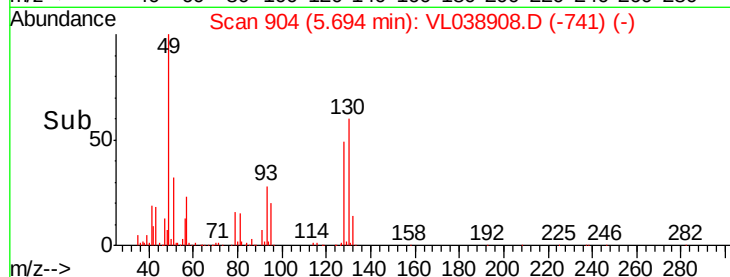
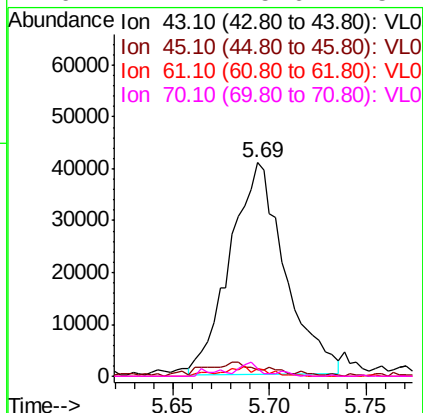
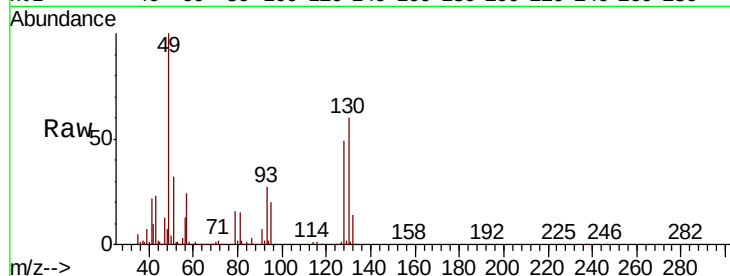
Tgt Ion	Ratio	Lower	Upper
43	100		
86	13.3	5.8	8.6#
42	26.8	7.8	11.6#
44	4.1	3.6	5.4





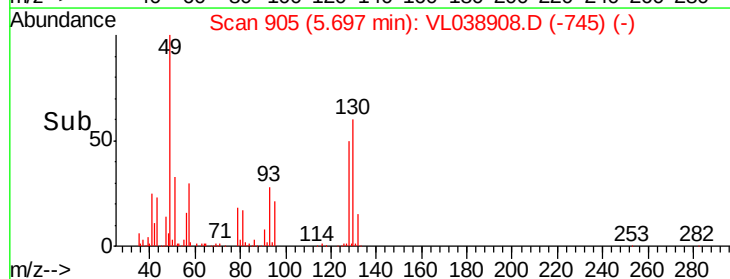
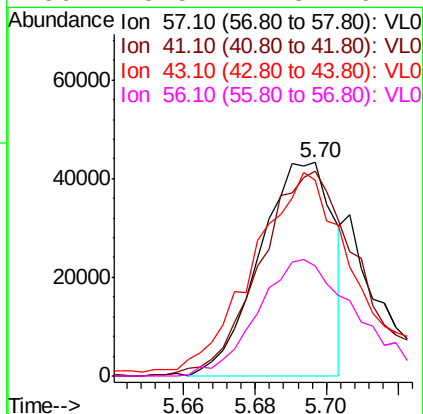
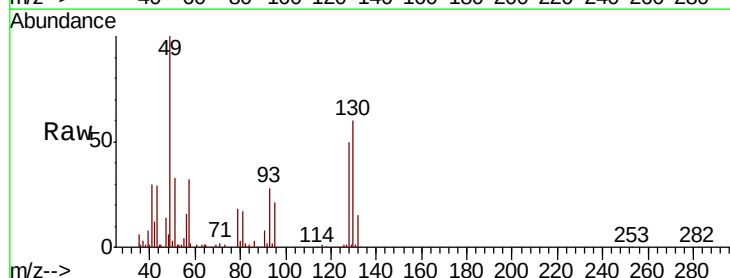
#25
Ethyl Acetate
Concen: 0.321 ppbv
RT: 5.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2022 18:16

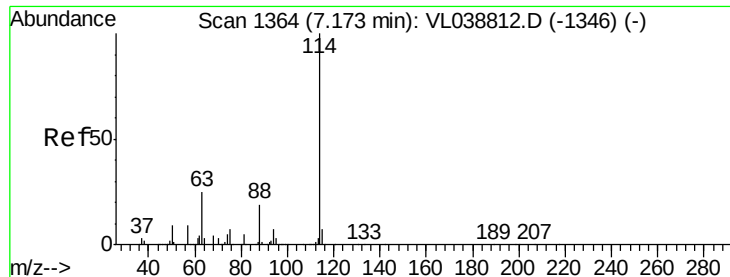
Tot Ion:	43	Resp:	80460
Ion	Ratio	Lower	Upper
43	100		
45	8.1	8.4	12.6#
61	3.5	7.9	11.9#
70	4.1	5.6	8.4#



#26
Hexane
Concen: 0.543 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL038908.D
Acq: 13 Apr 2022 18:16

Tgt Ion:	57	Resp:	61908
Ion	Ratio	Lower	Upper
57	100		
41	138.5	72.0	108.0#
43	138.8	186.6	280.0#
56	79.5	42.8	64.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18

Instrument: MSVOA_1

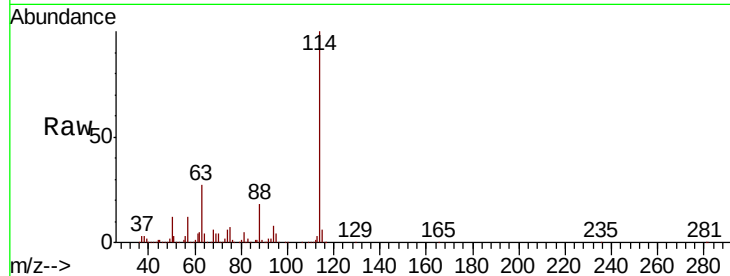
Delta R.T.:

Lab File: ClientSampleId:

Acq: 13 Apr 2022 18:16

Tot Ion:114 Resp: 2292211

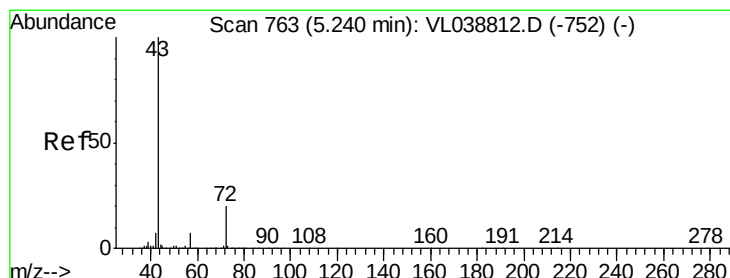
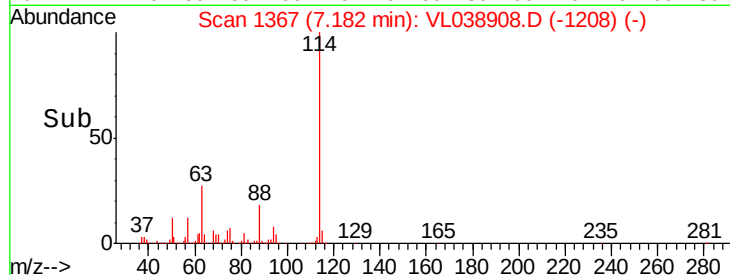
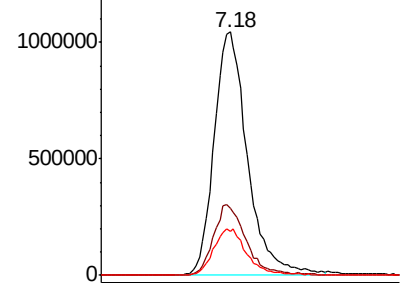
Ion	Ratio	Lower	Upper
114	100		
63	28.6	19.8	29.8
88	19.4	14.2	21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.973 ppbv

RT: 5.25 min Scan# 767

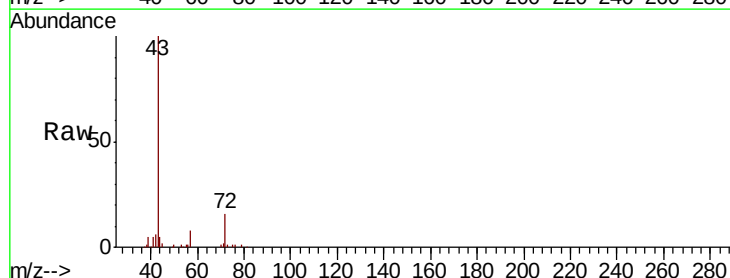
Delta R.T. 0.01 min

Lab File: VL038908.D

Acq: 13 Apr 2022 18:16

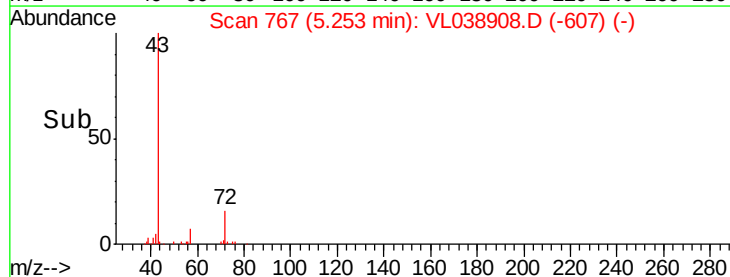
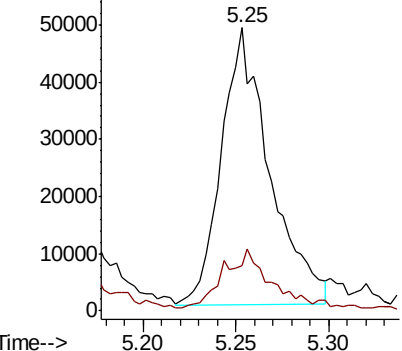
Tgt Ion: 43 Resp: 88156

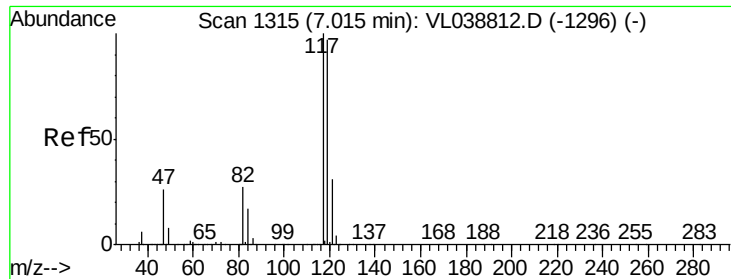
Ion	Ratio	Lower	Upper
43	100		
72	26.4	16.9	25.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

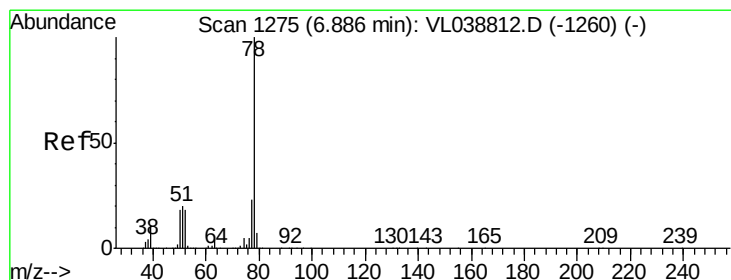
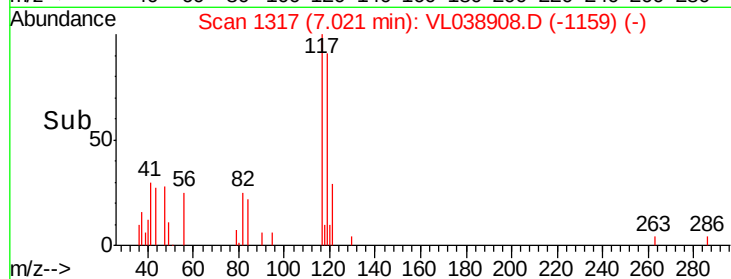
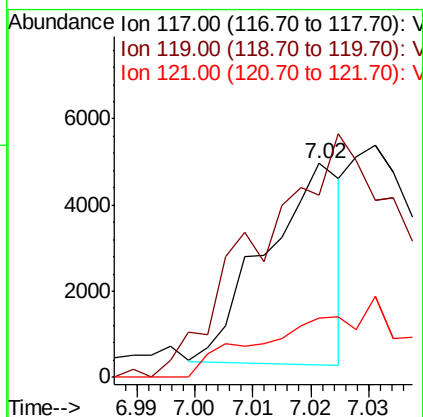
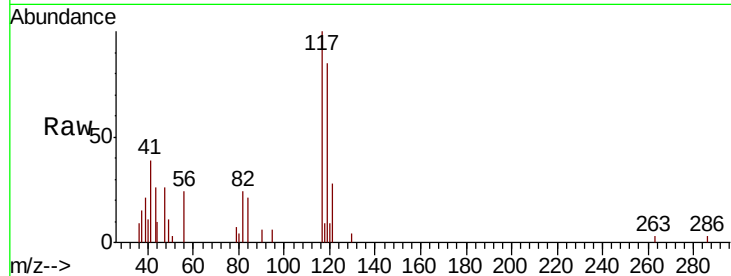
Ion 72.10 (71.80 to 72.80): VL0





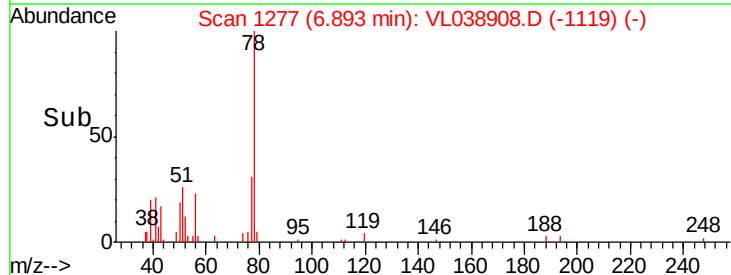
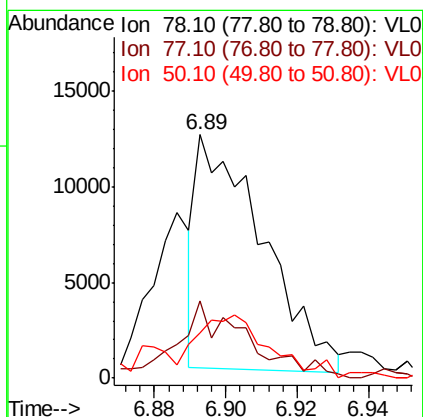
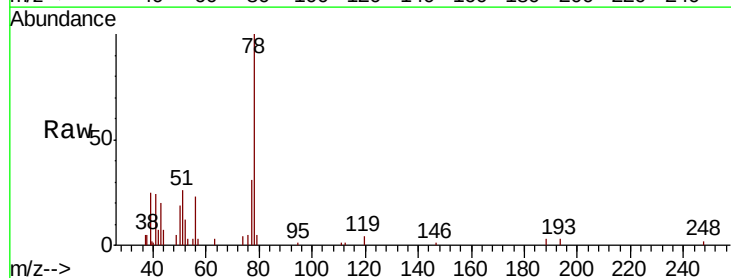
#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 7.02
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Apr 2022 18:16

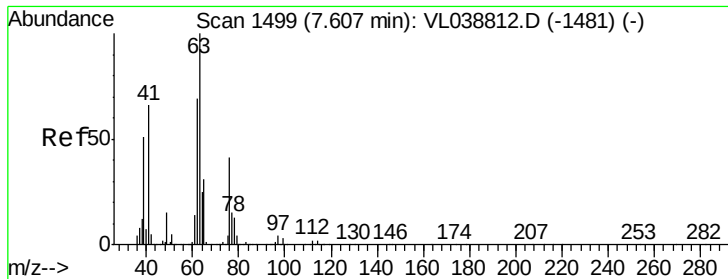
Tot Ion:117 Resp: 4224
Ion Ratio Lower Upper
117 100
119 63.4 77.7 116.5#
121 27.2 24.5 36.7



#36
Benzene
Concen: 0.075 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.01 min
Lab File: VL038908.D
Acq: 13 Apr 2022 18:16

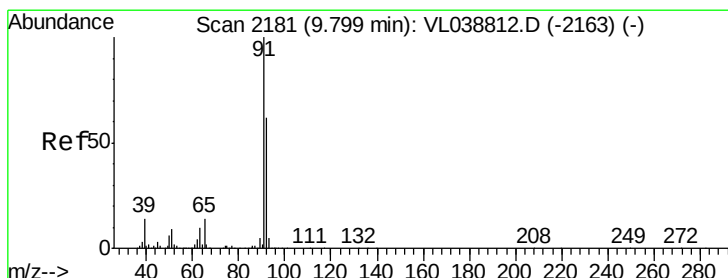
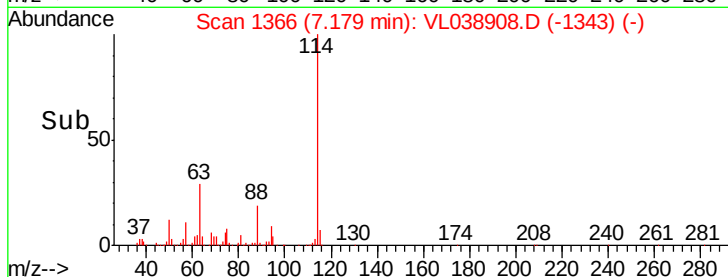
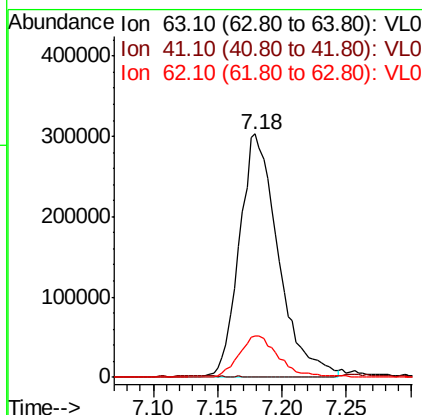
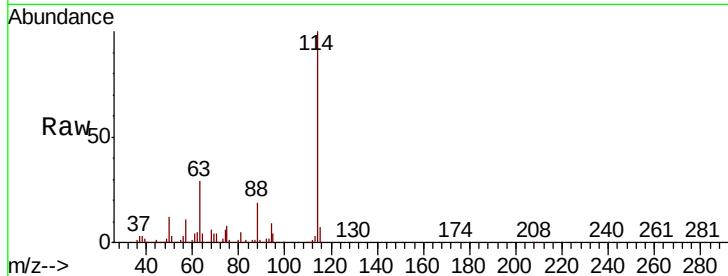
Tgt Ion: 78 Resp: 15694
Ion Ratio Lower Upper
78 100
77 32.7 18.2 27.2#
50 20.8 14.0 21.0





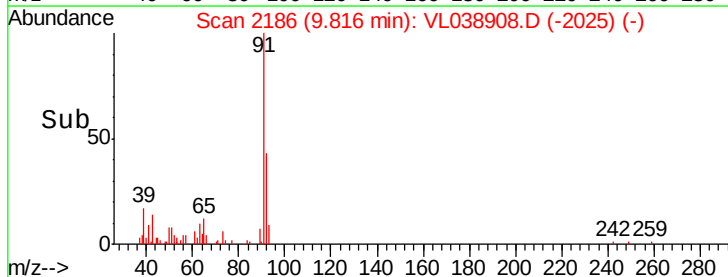
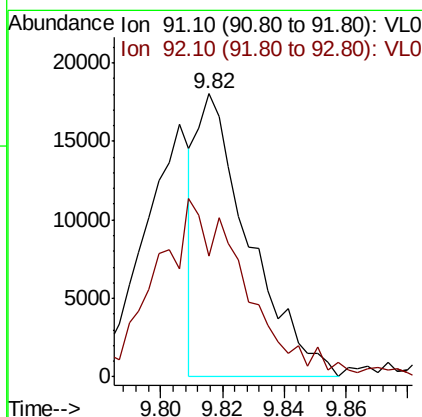
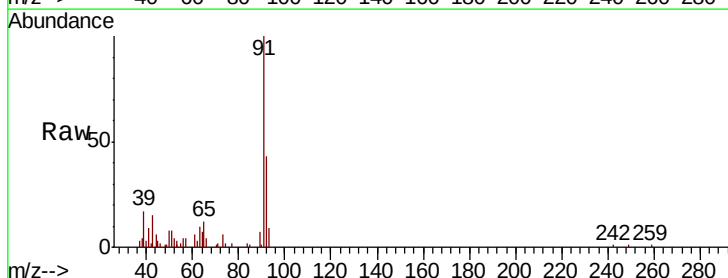
#39
 1,2-Dichloropropane
 Concen: 8.022 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1DUP
 Acq: 13 Apr 2022 18:16

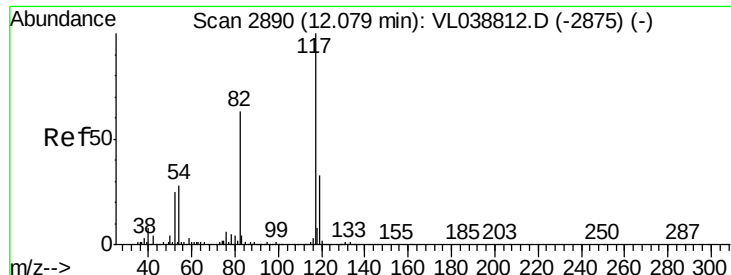
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	17.2	55.0	82.4#



#53
 Toluene
 Concen: 0.088 ppbv
 RT: 9.82 min Scan# 2186
 Delta R.T. 0.02 min
 Lab File: VL038908.D
 Acq: 13 Apr 2022 18:16

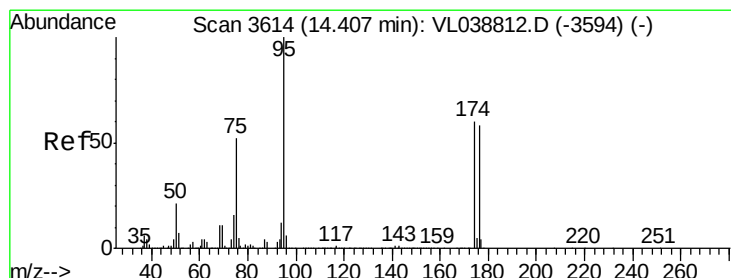
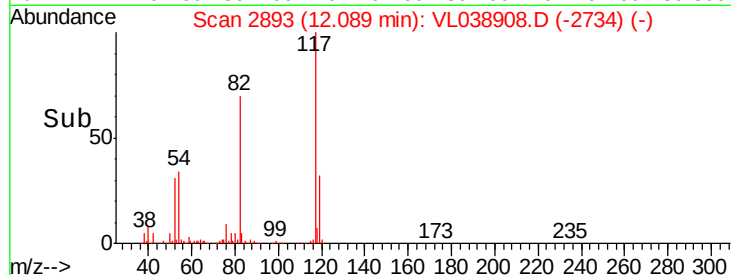
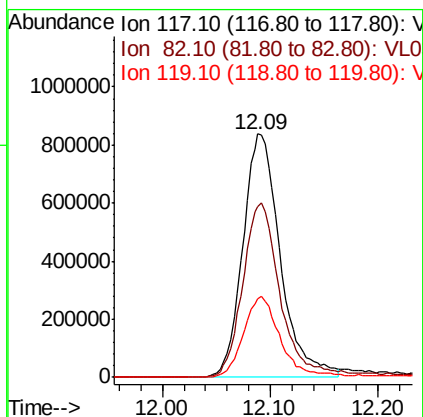
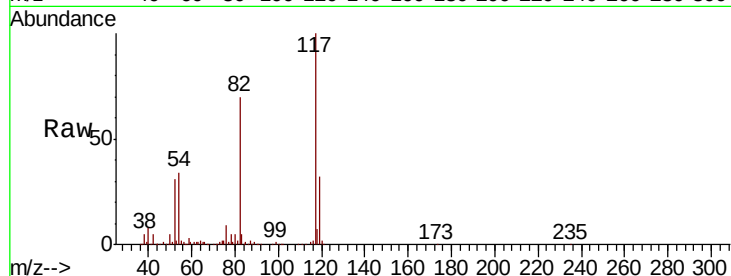
Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.2	73.8#





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 1DUP
 Acq: 13 Apr 2022 18:16

Tot Ion: 117 Resp: 2022807
 Ion Ratio Lower Upper
 117 100
 82 74.4 53.0 79.6
 119 33.3 24.9 37.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.219 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T.: 0.01 min
 Lab File: VL038908.D
 Acq: 13 Apr 2022 18:16

Tgt Ion: 95 Resp: 1721451
 Ion Ratio Lower Upper
 95 100
 174 62.2 52.0 78.0
 175 4.5 4.0 6.0

